

BEST AVAILABLE COPY

Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

ATTY. DOCKET NO.

NAGEL 202

SERIAL NO.

09/577 533

APPLICANT

ROBERT NAGEL

FILING DATE

5/24/00

GROUP

2766

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6 0 2 8 9 3 7 2	22/00	TATEBAYASHI, ETAL	380/25		10/9/96
	6 0 2 6 1 6 7 2	15/00	AZIZ	380/28		5/23/97
	6 0 0 9 1 7 1 2	28/99	CHIARELLI	380/5		6/24/97
	5 9 9 1 3 9 9 1	23/99	GRAUNKE ETAL	380/4		12/18/97
	5 9 4 8 1 3 6 2	17/99	SMYERS	380/4		7/30/97
	5 9 1 5 0 1 8 6	22/99	AUGSMITH	380/4		11/5/96
	5 9 1 3 5 4 3 6	22/99	CURIEL	283/94		7/29/96
	5 6 0 1 6 8 3 2	11/97	MARTIN	356/277		1/25/96
	5 9 4 9 0 4 2 9	17/99	DIETZ, ETAL	235/375		1/21/97
	5 9 2 8 4 7 1 7	27/99	HOWLAND, ETAL	162/110		9/16/94

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
EP A2 0 2 0 3 4 9 9	12/3/86	EUROPEAN			✓
GB A 1 4 8 9 0 8 4	10/19/77	GREAT BRITAIN			✓
EP A1 0 3 8 8 0 9 0	9/19/90	EUROPEAN			✓
JP 6 1 4 1 3 9 7		JAPAN			✓
UK 1 1 3 8 0 1 1	12/21/68	UNITED KINGDOM			✓

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

RIVEST, ETAL; "A Method for Obtaining Digital Signatures..." Communications of ACM 21(2): 120-126 (Feb 1978)

EXAMINER

DATE CONSIDERED

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Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))	ATTY. DOCKET NO.	SERIAL NO.
	NAGEL 202	09/577,533
	APPLICANT ROBERT NAGEL	
	FILING DATE	GROUP
	5/24/00	2766

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
	2021141	11/19/39	BOYER			5/1/33
	5118526	6/2/92	ALLEN ET AL	1427/161		3/11/91
	4513056	4/23/85	VERNOIS ET AL	1428/264		3/23/83
	5946103	8/31/94	CURRY	358/405		1/29/98
	5453605	9/26/95	HECHT ET AL	235/444		12/22/93
	5193853	3/16/93	WICKER	283/85		4/3/92
	5018767	5/28/91	WICKER	283/67		1/18/89
	5315112	5/24/44	HARRIS	1250/235		12/10/92
	5706099	1/6/98	CURRY	358/298		1/6/98
	5696604	12/9/97	CURRY	358/459		1/4/95
	5410414	4/25/95	CURRY	358/298		10/28/93

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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						YES	NO
	UK 2224240	5/2/90	UNITED KINGDOM			✓	
	WO 9725177						
	EP 0660270	6/28/95	EUROPEAN				✓
	EP 0328320	8/16/89	EUROPEAN			✓	

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PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
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	5710636	1/20/98	CURRY	358/298		6/5/95
	6061665	5/9/00	BAHREMAN	705/40		6/6/97
	5396559	3/1/95	MCGREW	380/54		8/24/90
	6039357	3/21/00	KENDRICK	283/93		1/8/92
	5995638	11/30/99	AMIDROR ETAL	382/100		7/5/96
	6014453	1/11/00	SONODA ETAL	382/137		6/7/96
	6030655	2/29/00	HANSMIRE ETAL	427/1		6/3/99
	5289547	2/22/94	LIGAS ETAL	382/7		12/6/91
	4507349	3/26/85	FROMSON ETAL	428/195		5/16/83
	4767205	8/30/88	SCHWARTZ ETAL	356/71		1/28/86
	4157784	6/12/79	GROTTREP ETAL	235/491		6/9/78



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	"DSS: specifications of a signature algorithm". Nat'l Institute of Standards & Technology. Draft, August 1991.

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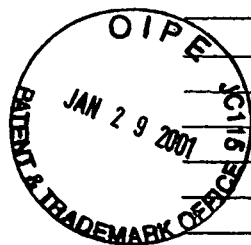
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
	3391479	7/4/68	BUZZELL ET AL			12/10/65
	3880706	4/29/75	WILLIAMS	1162/103		8/29/73
	4247318	11/27/81	LEE ET AL	1156/163		1/30/79
	4186943	2/5/80	LEE	283/7		9/23/77
	4445039	4/24/84	YEW	259/492		7/6/81
	4652015	3/24/87	CRANE	283/91		12/5/85
	4552617	11/12/85	CRANE	1162/103		6/13/84
	4437935	3/20/84	CRANE	1162/103		6/3/81
	5393099	2/28/95	D'AMATO	283/91		5/21/93
	5602381	2/11/97	HOSHINO ET AL	235/493		5/16/94
	3701165	10/31/72	HUDDLESTON	12/243R		4/29/71



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		DOCUMENT NUMBER								PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
													YES	NO	

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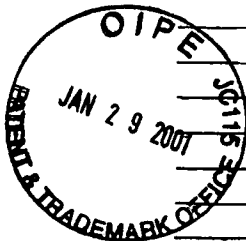
5/24/00

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
	4 8 2 0 9 1 2	4/11/89	SAMYN	235/449		9/19/86
	5 3 2 5 1 6 7	6/28/94	MELEN	356/71		5/11/92
	3 9 4 2 1 5 4	3/2/76	AKAMI, ETAL	340/1463		6/28/74
	4 5 1 4 0 8 5	4/30/85	KAYE	356/71		6/28/82
	5 5 9 1 5 2 7	1/7/97	LU	428/411		11/2/94
	5 5 8 0 9 5 0	12/3/96	HARRIS, ETAL	528/350		10/13/94
	5 5 4 9 9 5 3	8/27/96	LI	428/641		4/29/93
	4 4 3 4 0 1 0	2/28/84	ASH	1106/291		10/26/81
	4 7 0 4 3 5 6	11/3/87	THONAR	435/7		3/27/84
	4 7 7 9 8 9 8	10/25/88	BERNING, ETAL	283/58		8/21/87
	4 8 3 8 6 4 8	6/13/89	PHILLIPS, ETAL	350/166		5/3/88



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		COX, et al; "Secure Spread Spectrum"; NEC Research Inst Tech Report 95-10, 1995
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(Information Disclosure Statement—Section 2. FORM PTO - 1449 (Modified)
(6-1)—page 6 of 18)

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	4623579	11/18/86	QUON	1428	215	10/4/85
	4756557	7/12/88	KAWLE ETAL	1283	85	12/23/85
	6019872	2/1/00	KURRIE	162	140	1/20/99
	6054021	4/25/00	KURRIE ETAL	162	140	1/20/99
	6045656	4/4/00	FOSTER ETAL	162	140	12/21/98
	6035914	3/14/00	RAMSEY ETAL	156	318	10/22/93
	5984366	11/16/99	PRIDDY	1283	72	11/22/96
	5932119	8/3/99	KAPLAN ETAL	1219	121	7/30/96
	5380047	1/10/95	MOLEE ETAL	1283	86	6/16/93
	5370763	12/6/94	CURIEL	156	277	3/16/94



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	Common Markup for web Micropayment Systems, http://www.w3.org/TR/WD-micropayment-Markup (09-Jun-99)
	"Distributing IntProp...": OLIVIA, http://olivia.modlang.denison.edu/~olivia/RFC/09/

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	5243649	9/7/93	FRANSON	380/9		9/29/92
	4199615	4/22/80	WACKS ETAL	427/431		2/18/77
	4059471	11/21/77	HAIGH	156/244		1/13/75
	4178404	12/11/79	ALLEN ETAL	428/209		2/6/78
	4121003	10/17/78	WILLIAMS	428/40		4/22/77
	5464690	11/7/95	BOSWELL	428/334		4/4/94
	4913858	4/3/90	MIKKA ETAL	264/1.3		10/3/88
	6028936	2/22/00	HILLIS	380/23		1/16/96
	6021202	2/1/00	ANDERSON ETAL	380/25		12/19/97
	6009174	12/23/99	TATEBAYASHI ETAL	380/21		10/27/97

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	5 3 7 5 1 7 0	12/20/94	SHAMIR	380/30		4/19/93
	5 2 6 3 0 8 5	11/16/93	SHAMIR	380/30		11/13/92
	4 4 0 5 8 2 9	9/20/83	RIVEST, ETAL	178/221		12/14/77
	5 6 0 0 7 2 5	2/4/97	RUEPPEL, ETAL	380/30		8/17/94
	5 6 0 4 8 0 4	2/18/97	MICALI	380/25		4/23/96
	5 1 6 6 9 7 8	11/24/92	QUISQUATER	380/430		2/21/91
	6 0 0 2 7 7 2	12/14/94	SAITO	380/49		4/2/97
	6 0 6 5 1 1 9	5/16/00	SANDFORD, ETAL	713/200		5/30/97
	5 5 9 2 5 4 9	1/7/97	NAGEL, ETAL	380/4		6/15/95
	5 3 9 4 4 6 9	2/28/95	NAGEL, ETAL	380/4		2/18/94
	6 0 4 4 4 6 3	3/23/00	KANDA, ETAL	713/168		8/25/97



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U.S. PATENT DOCUMENTS

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	5926551	7/20/99	DWORK, ETAL	380/51		12/28/95
	5745574	4/28/98	MUFTIC	380/23		12/15/95
	5231668	7/27/93	KRAVITZ	380/28		7/26/91
	4995081	2/19/91	LEIGHTON, ETAL	380/23		11/6/89
	4200770	4/29/80	HELLMAN, ETAL	178/22		9/6/77
	6041704	3/28/00	PAUSCHINGER	101/91		12/9/97
	6041317	3/21/00	BROOKNER	705/61		11/19/97
	6058384	5/21/00	PIERCE, ETAL	705/50		12/23/97
	5953426	9/14/99	WINDL, ETAL	380/51		2/11/97
	3962539	6/8/76	EHRSAM, ETAL	178/22		2/24/75
	5422954	6/6/95	BERSON	380/51		11/4/93

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	5 3 3 7 3 6 2 8	9/94	GORMISH, ETAL	380/54		4/15/93
	5 1 6 6 9 7 8	11/24/92	QUISQUATER	380/430		2/21/91
	5 1 1 3 4 4 5 5	12/92	WANG	380/51		2/11/91
	4 8 9 3 3 3 8	1/9/90	PASTOR	380/25		12/31/87
	4 8 7 9 7 4 7	11/7/89	LEIGHTON ETAL	380/23		3/21/88
	4 8 6 8 8 7 7	9/19/89	FISCHER	380/25		12/12/88
	4 8 5 3 9 6 1	8/1/89	PASTOR	380/21		12/18/87
	4 8 1 2 9 6 5	3/14/89	TAYLOR	380/550		8/6/85
	5 3 6 7 1 4 8	11/22/94	STORCH, ETAL	235/375		3/15/91
	5 2 8 3 4 2 2	2/1/94	STORCH, ETAL	235/375		8/10/92



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	48145893	21/89	SDRCH, ETAL	235/375		4/18/86
	5974150	10/26/99	KAISH, ETAL	380/25		7/6/98
	5592561	11/2/97	MOORE	382/103		4/11/95
	5367319	11/22/94	GRAHAM	347/2		7/30/92
	5499294	3/12/96	FRIEDMAN	380/10		5/24/95
	5351302	9/27/94	LEIGHTON, ETAL	380/30		5/26/93
	5574790	11/20/96	LIANG, ET AL	380/23		12/18/95
	5426700	6/20/95	BERSON	380/23		8/23/93
	5420924	5/30/95	BERSON, ETAL	380/23		4/26/93
	5384846	11/2/95	BERSON, ETAL	380/23		4/26/93
	5388158	2/7/95	BERSON	380/23		11/20/92

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	5 1 9 1 6 1 3 3 2 93		GRAZIANO ETAL	380/25		11/15/91
	5 1 6 3 0 9 1 11 10 92		GRAZIANO ETAL	380/25		11/16/90
	5 6 0 6 6 0 9 2 25 91		HOUSER ETAL	380/4		9/19/94
	4 9 8 1 3 7 0 11 91		DZIEWIT ETAL	380/25		1/29/90
	6 0 4 9 7 8 7 4 11 00		TAKAHASHI ETAL	705/44		3/30/98
	5 1 4 2 5 7 7 8 25 92		PASTOR	380/21		12/17/90
	5 0 7 3 9 3 5 12 17 91		PASTOR	380/30		12/17/90
	4 8 1 6 6 5 5 3 28 89		MUSYCK ETAL	235/380		12/9/86
	4 6 3 7 0 5 1 1 83 87		CLARK	382/1		7/18/83
	4 6 3 0 2 0 1 12 16 84		WHITE	364/408		2/14/84

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[illegible]

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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
	4 4 6 3 2 5 0	7/31/84	MCNEIGHT ETAL	235/388		5/21/82
	4 1 5 0 7 8 1	4/24/79	SILVERMAN ETAL	235/382		12/21/76
	4 8 6 4 6 1 8	9/5/89	WRIGHT, ETAL	380/51		10/17/88
	4 9 7 2 4 7 5	11/26/90	SANT'ANSELMO	380/54		2/3/89
	4 9 8 2 4 3 7	1/1/91	LORIOT	382/8		1/20/88
	5 0 7 5 8 6 2	12/24/91	DOEBERL ETAL	395/117		12/26/89
	5 2 2 7 6 1 7	7/13/93	CHRISTOPHER ETAL	235/462		12/28/89
	5 2 8 5 3 8 2	2/8/94	MUEHLBERGER ETAL	364/401		2/25/91
	5 3 3 7 3 6 1	8/9/94	WANG, ETAL	380/51		6/1/92
	5 3 7 0 7 6 3	12/6/94	CURIEL	1156/277		3/16/94

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[illegible]

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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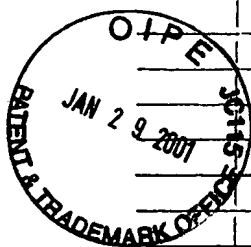
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
	4 1 9 9 6 1 5	4/22/80	WACKS, ETAL	427/431		2/18/77
	4 1 2 1 0 0 3	10/17/78	WILLIAMS	428/40		4/22/77
	5 4 2 2 9 5 4	6/6/95	BERSON	380/51		11/4/93
	5 1 1 3 4 4 5	5/12/92	WANG	380/51		2/11/91
	4 5 0 7 7 4 4	3/26/85	McFiggans, ETAL	364/708		7/19/82
	6 0 5 2 7 8 0	4/18/00	GLOVER	713/193		7/3/97
	6 0 1 1 9 0 5	1/4/00	HUTTENLOCHER	1395/102		11/8/96
	5 9 3 3 8 2 9	8/3/99	DURST ETAL	707/10		11/8/97
	5 9 1 2 9 7 4	6/15/99	HOLLOWAY, ETAL	380/51		4/30/97
	5 9 3 2 1 1 9	8/3/99	KAPLAN, ETAL	124/121		7/30/96



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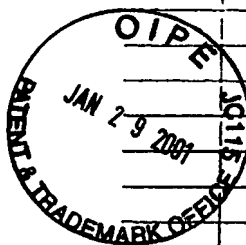
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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
	5991414	11/23/99	GARAY ETAL	380/25		9/12/97
	5949876	9/7/99	GINTER ETAL	380/4		1/8/97
	5982891	11/9/99	GINTER ETAL	380/4		11/4/97
	5943422	8/24/99	VAN WIE ETAL	380/9		8/12/96
	5933498	8/3/99	SCHNECK ETAL	380/4		11/5/97
	5629980	5/13/97	STEFIK ETAL	380/4		11/23/94
	5634012	5/27/97	STEFIK ETAL	395/239		11/23/94
	5930777	7/27/99	BARBER	1705/40		5/23/97
	5857023	1/5/99	DEMERS ETAL	380/24		11/25/96
	5815657	9/29/98	WILLIAMS ETAL	395/186		4/26/96
	5793868	8/11/98	MICALI	380/28		11/5/96



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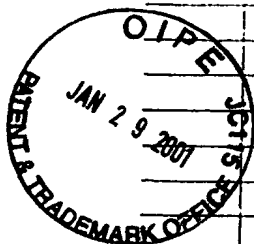
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	5717757	2/10/98	MICALI	380/25		11/19/96
	5666416	9/9/97	MICALI	380/23		11/16/95
	5677955	10/14/97	DOGGETT ET AL	380/24		4/7/95
	5839119	11/17/98	KRSUL ET AL	705/39		9/27/96
	5915093	6/22/99	BERLIN ET AL	395/200		4/24/97
	5937394	8/10/99	WONG ET AL	705/26		11/17/97
	5933498	8/3/99	SCHNECK ET AL	380/4		11/5/97
	5903880	5/11/99	BIFFAR	705/39		7/19/96
	5903651	5/11/99	KOCHER	380/25		5/14/96
	5884277	3/18/99	KHOSLA	705/14		5/1/95
	5960083	9/28/99	MICALI	380/23		3/24/97



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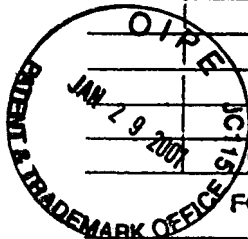
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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE (if appropriate)
	5963924	10/5/99	WILLIAMS, ETAL	705/40		4/26/96
	5996076	11/30/99	ROWNEY, ETAL	713/201		2/19/97
	6016484	11/18/00	WILLIAMS, ETAL	705/39		4/26/96
	6018724	1/25/00	ARENT	705/44		6/30/97
	6021202	2/1/00	ANDERSON, ETAL	380/25		12/19/97
	6035402	3/7/00	VAETH, ETAL	713/201		12/20/96
	6049786	4/11/00	SMORODINSKY	705/40		7/22/97
	6049787	4/11/00	TAKAHASHI, ETAL	705/44		3/30/98
	6058381	5/2/00	NELSON	705/40		10/30/97
	6061448	5/8/00	SMITH, ETAL	380/21		4/1/97
	5987132	11/16/99	ROWNEY	380/24		6/17/96



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